



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

M/45/005

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June 11, 2002

TO: Minerals File
FROM: Doug Jensen, Paul Baker, Reclamation Specialists
RE: Site Inspection, Lone Star Industries, Inc., Little Mountain Quarry, M/045/005, Quarry Antone, M/045/021, Tooele County, Utah

Date of Inspection: June 4, 2002
Time of Inspection: 9:30 AM
Conditions: Warm, Breezy
Participants: Doug Jensen, Paul Baker, DOGM

Purpose of Inspection:

Lone Star Industries recently sent a letter to the Division requesting an extension of Rule R647-4-117.4 which requires the reclamation of sites that have been in suspension for a period of more than 10 years. The Division inspected the sites in question to ascertain the overall site stability and to assess reclamation bond adequacy for each.

Getting to the site:

The sites are located 34 miles west of Salt Lake off I-80 and 4 to 5 miles west of Grantsville on State Route 138. Both sites are located on the south side of the road in the low foothills.

Observations:

Because these two sites are limestone quarries the sites do not present any environmental problems due to off-site contamination. The natural limestone bedding plane has been utilized to form the highwalls at both sites, therefore highwalls are very stable.

Both sites appear to have self-revegetated and there were not any signs of erosion at either site. The vegetation in areas surrounding the sites is a sagebrush/grass community with dominant species including big sage, bluebunch wheatgrass, Utah juniper, downy brome, and Sandberg bluegrass. The topsoil piles at Quarry Antone were vegetated with crested wheatgrass and alfalfa. Disturbed areas at both sites have self-revegetated with a dominant community of rabbitbrush.

There are multiple piles of harvested soil at the Quarry Antone site. The amount of soil harvested at the Little Mountain site appears to be minimal, amended over-burden material may have to be used in areas of the site requiring soil replacement.

A GPS survey was completed at both sites to document the disturbed acre footprint at each site. The survey indicated that the Quarry Antone area of disturbance to be 11.65 acres; this site is presently permitted to disturb 8 acres. The Little Mountain Quarry survey showed a disturbance of 23.29 acres; this site is permitted to disturb an area of 20 acres.

Conclusions and Recommendations:

The bonds for each site were recently escalated to the year 2007. The escalated bond for Quarry Antone was calculated to be \$49,900 and Little Mountain bond was calculated at \$69,900. The writer has reviewed the reclamation plans for each site and feels that the bonds, as presently calculated, will be sufficient to reclaim each area. This is mainly due to the fact that much of the disturbed areas at each site has self revegetated with volunteer growth. Therefore, any attempt to reclaim some areas will result in destroying more vegetation than the Division would require for vegetation release. However, should Lone Star choose to expand the present plan to include any future mining areas, the present bond will need to be reassessed because future mining could possibly destroy areas at each site that have self revegetated.

Because both sites are presently out of compliance, it is recommended that Lone Star (1) amend the present permits to include the additional acreage indicated by the GPS survey; and (2) update the existing bonds to the escalated amount, before the Division supports Lone Star's application to extend the period of suspension for these two mines.

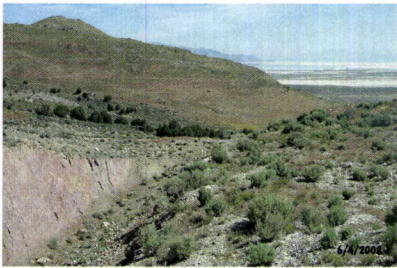
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Cc: Harry Phillip, Lone Star Industries

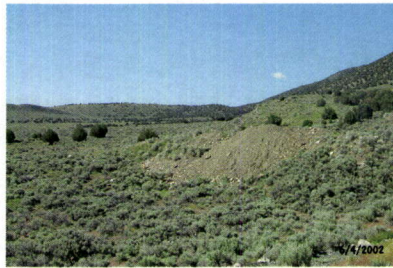
Mike Malmquist, Parsons, Behle & Latimer

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QUARRY ANTONE



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LITTLE MOUNTAIN QUARRY



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LITTLE MOUNTAIN QUARRY



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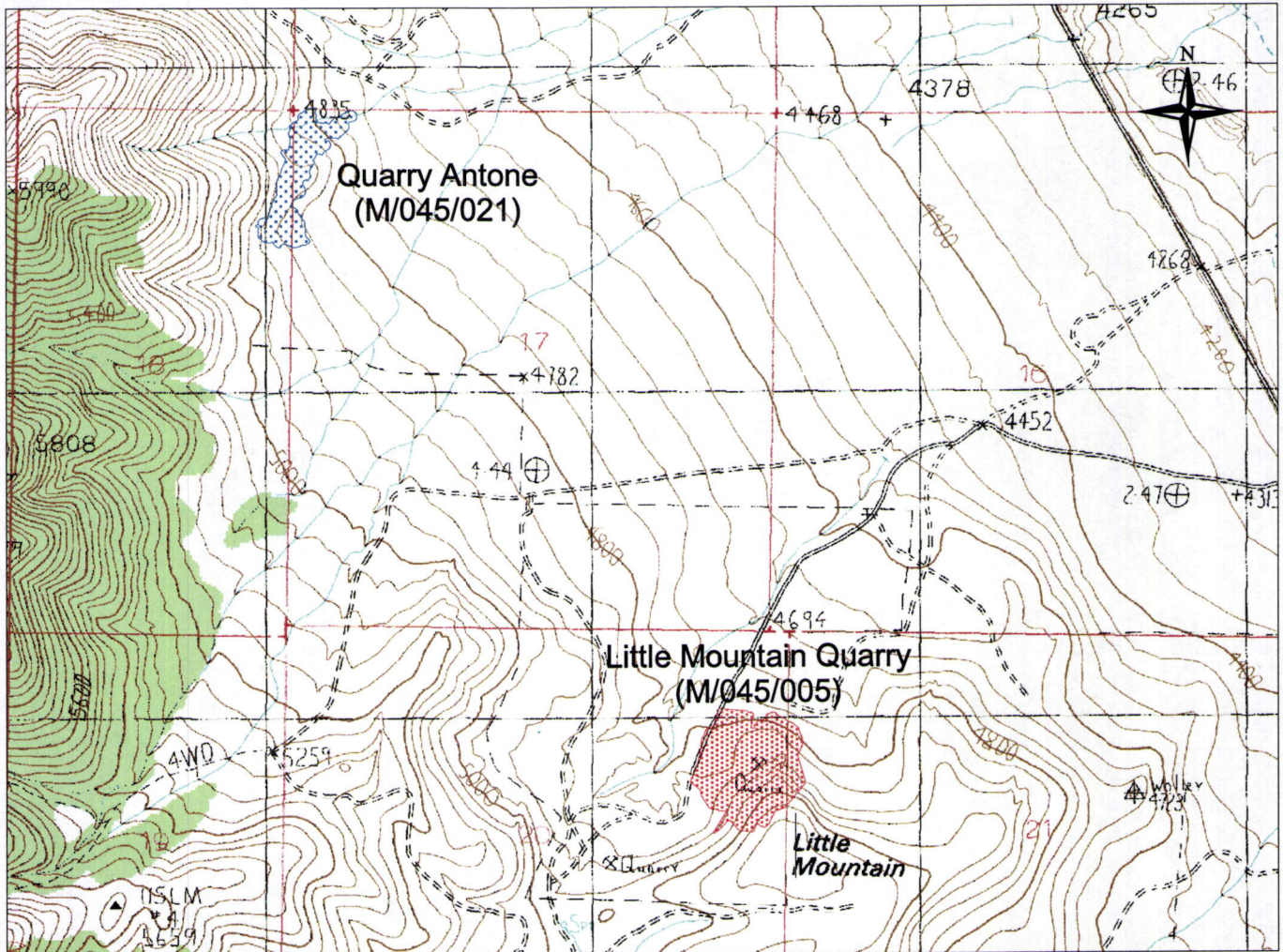


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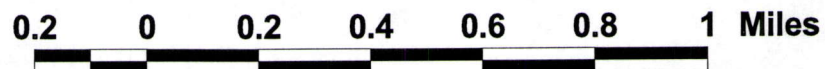


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Lone Star Industries Tooele County Quarries



Flux Quad



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Prepared by DOGM 06/11/02